

Special Operations Forces Industry Conference

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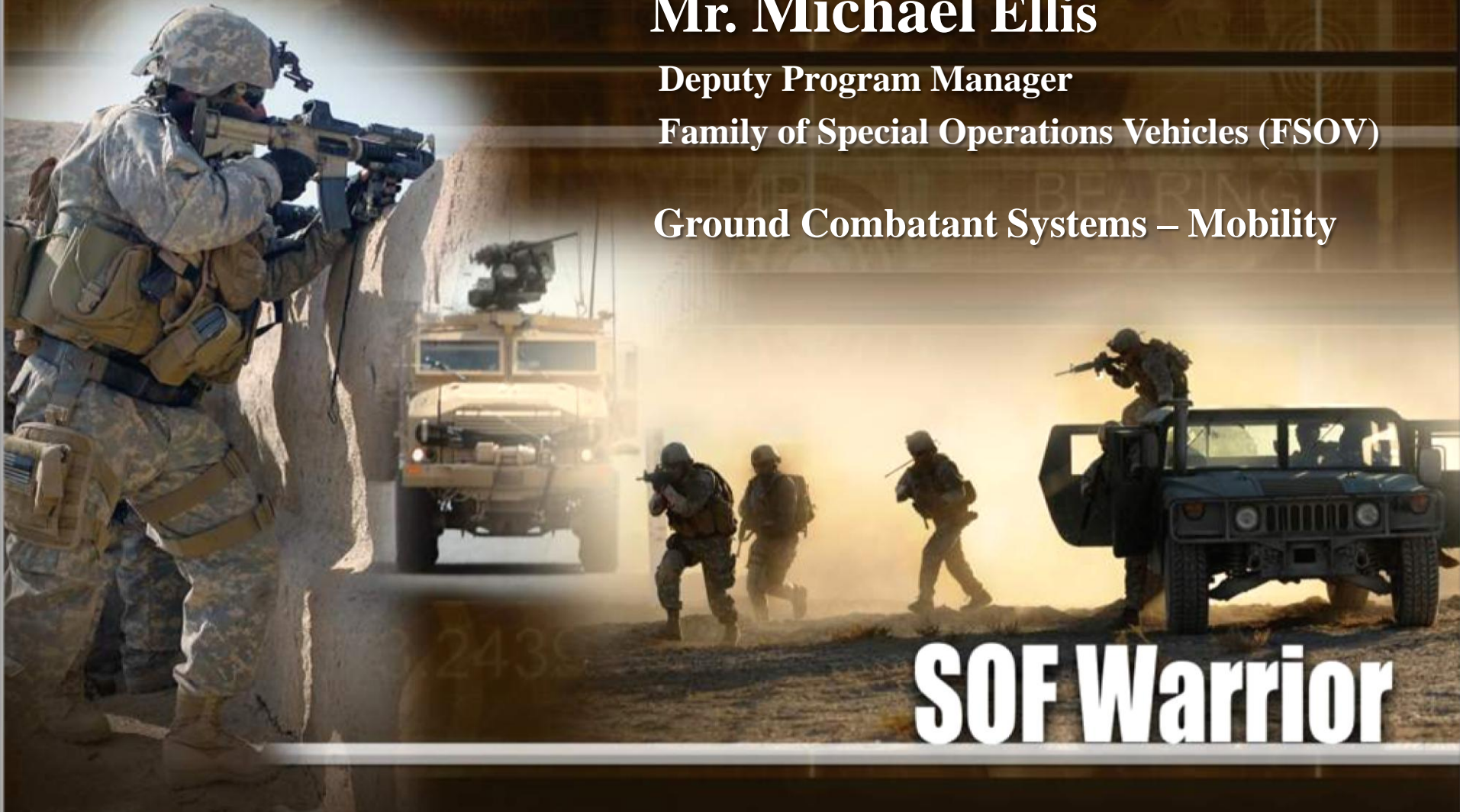


Mr. Michael Ellis

Deputy Program Manager

Family of Special Operations Vehicles (FSOV)

Ground Combatant Systems – Mobility



SOF Warrior

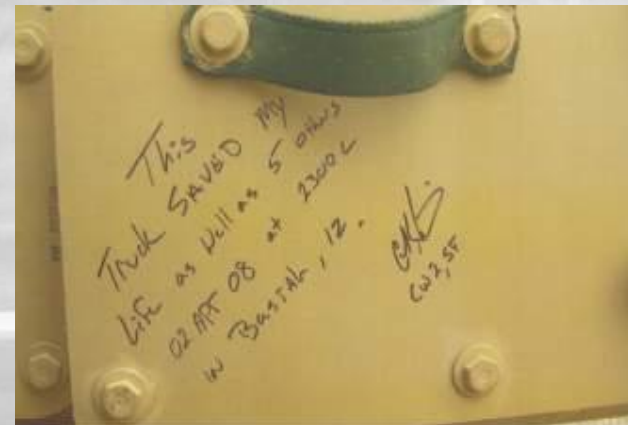
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PM FOSOV Mission

Develop, procure and sustain wheeled mobility capabilities for specific missions when Service solutions do not meet SOF requirements.



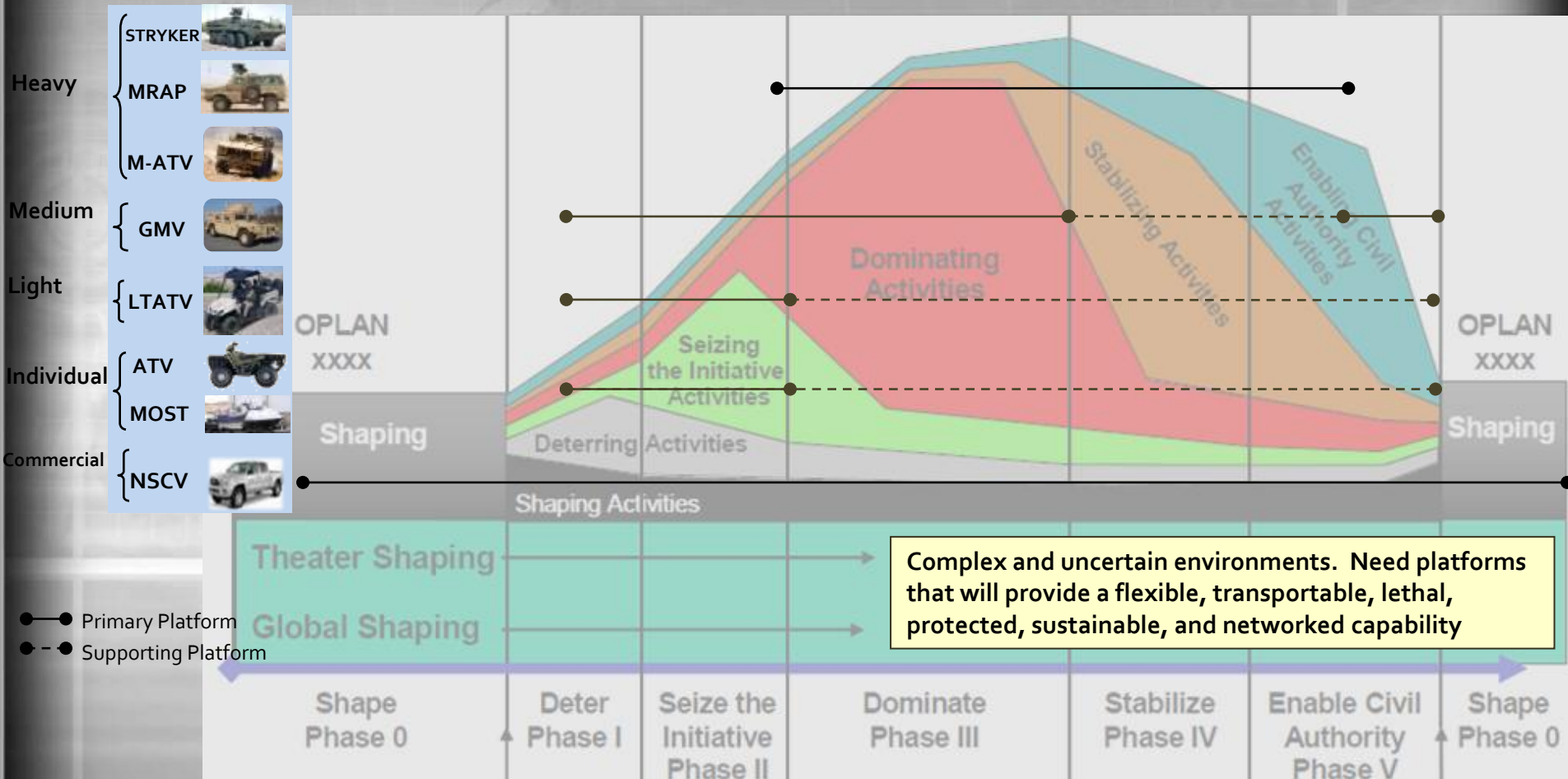
3,000 SOF Modified
and
SOF Specific vehicles



SOF WARRIOR



Scope of the Tactical Mobility Requirement



SOF WARRIOR



FOSOV Portfolio

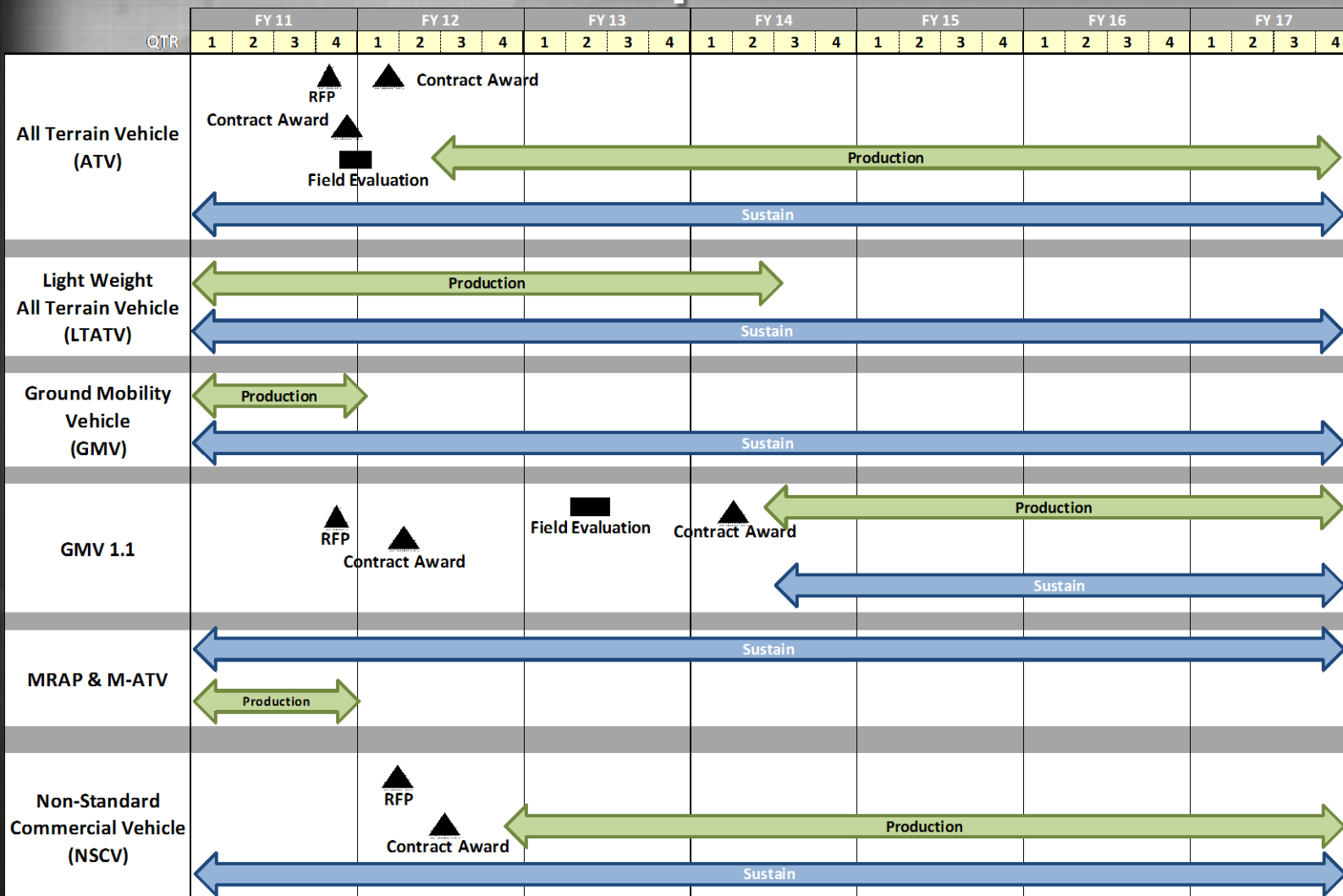


- 640 + modified-Commercial Off-the-Shelf All-Terrain Vehicles
- 360 + modified-Commercial Off-the-Shelf Light Tactical All Terrain Vehicles
- 1,097 + Special Operations Modified Ground Mobility Vehicles (HMMWV-based)
- 1,100 + Heavy Vehicles (MRAP & M-ATV)
- 165 + Non-Standard Commercial Vehicles

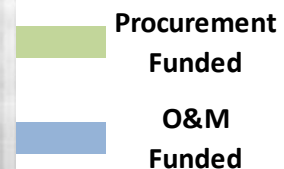
SOF WARRIOR



FOSOV Road Map



Legend



SOF WARRIOR



Acquisition Philosophy

- **Maximize utilization of Service Common material solution**
 - Fully integrated in the requirements/development process
- **Integration at the System Level for Operational Capability**
 - Plug and play C4I
 - Weapons integration
 - Ballistic/Blast protection upgrades
 - Modularity, flexibility of modification, speed of delivery for mission
- **Build SOF Specific material solution**
 - Procure and sustain when above two options are unavailable
 - Limited resources
 - Focused on SOF-specific missions

SOF WARRIOR





All Terrain Vehicles

- Replace aging ATV fleet with “off-the-shelf” vehicles
- Projected annual procurement quantity of 245 ATVs until the Full Operational Capability (FOC) of 1,183 vehicles is attained.

Acquisition Strategy

Full and Open Competition
Pre-award Field Evaluation
IDIQ Contract

Period of Performance

5 Years (1 base w/ 4 option years)

Milestones

RFP Release : Aug 11
Contract Award (Test Vehicles): Oct 11
Field Evaluation: Oct-Nov 11
Contract Award: Dec 11

Point of Contact

PM FOSOV

Funding

\$6M per year (estimate)

Current Contract/OEM

Polaris: MV-700

ATV Requirements

<u>Attribute</u>	<u>Threshold</u>	<u>Objective</u>
Range	75 miles at GVWR	150 miles at GVWR
Controls	Motorcycle Handlebar	
Acceleration	0-30 mph in 7 sec at GVWR	0-45 mph in 7 sec at GVWR
Transportability	Internal (CV-22 & MH-47) Air-droppable Integral Tie Downs	
Mobility	4x4 Drive System	
Environment	All geography 10K feet altitude & -25°F to +130°F Temp Range	
Performance	At GVWR (hard surface) <ul style="list-style-type: none"> •Maintain 45 mph •Maintain 40 mph on 5% grade 	2,000 mile MMBOMF
Payload	450 lbs	900 lbs
Curb Weight	900 lbs	700 lbs

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Ground Mobility Vehicle (GMV 1.1)

- New requirement for a MH-47 internally transportable, “roll off” mission ready, medium weight vehicle.
- Multiple IDIQ contract awards for test quantities prior to a full-rate production decision.
- Projected full-rate procurement quantity of ~200 vehicles per year.

Acquisition Strategy

Full and Open Competition
 IDIQ Contract
 Multiple Awards for Test Vehicles
 Full-Rate Production “Down Select”

Period of Performance

5 Years (1 base w/ 4 option years)

Milestones

RFP Release : Sep 11
 Test Qty Production Award: Apr 12
 Field Evaluation: Jan 13
 Full Rate Production Award: Jan 14

Point of Contact

PM FOSOV

Funding

\$375M (estimate)

Current Contract/OEM

None

GMV1.1 Requirements

- **Protection**
 - Modular, lightweight armor solutions
 - Signature management in a variety of environments
- **Design / Ergonomics**
 - Embark/debark a MH-47 with primary weapons ready to fire in less than 60 seconds
 - Capacity for 3 primary passengers (driver, gunner & vehicle commander) and provisions for 2 secondary passengers
 - 360-degree crew visibility while minimizing dead space
 - Safe and comfortable seat design
 - Primary weapons station can continuously traverse 360 degrees
- **C4I Capacity**
 - Modular architecture
 - Enhanced navigation software with Identification Friend or Foe (IFF) and Command & Control (C2) Functions
 - Consolidated Communications System

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GMV1.1 Requirements (continued)

- **Mobility**
 - Transportable internally via MH-47 (10K lbs; including 2,126 lb of equipment)
 - Carries a 4,139 lbs combat payload (3 personnel with equipment and supplies)
 - Operational profile:
 - 70% on secondary roads and trails
 - 30% primary roads
 - All-wheel drive and capable of negotiating an 18-inch vertical step
 - Minimum 250-mile range using internal fuel tanks that are no more than 75% full
 - Sustain 70 mph over improved roads
- **Desirable future technologies**
 - Multi-fuel capability
 - Simulators to save in training costs
 - Next-generation, enhanced situational awareness tools
- **Sustainment**
 - Modular maintenance/parts
 - Maintainable by operators in austere environments with minimal assistance

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Non-Standard Commercial Vehicles

- Provide SOF operators with covert mobility by acquiring commercial vehicles that are representative of indigenous operating environments and modified to meet SOF-unique requirements.
- Estimated contract ceiling of \$200M for a total of ~750 vehicles.

Acquisition Strategy

Full and Open Competition
IDIQ Contract

Period of Performance

5 Years (1 base w/ 4 option years)

Milestones

RFP Release : Dec 11
Contract Award: Apr 12

Point of Contact

PM FOSOV

Funding

\$21M per year (estimate)

Current Contract/OEM

Various

NSCV Requirements

Commercial vehicles that include some combination of the following SOF modifications:

- Armor
- C4ISR wiring, mounts and antennas
- Roof Rack
- Run Flat Tires
- Winch
- Additional power outlets
- Upgraded Suspension
- Heavy duty brakes

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Questions



PM FOSOV: Enabling Users to Meet Their Objectives and Return Home Safely

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